

Serial No. 10/580,337  
Atty. Doc. No. 2004P15404WOUS

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Amendments to the Claims:

1.-5. (canceled)

6. (currently amended) A method for establishing a connection between a service requester and a service provider in a decentralized mobile wireless network comprising a plurality of Internet Packet (IP) routers, each router comprising a routing table, the method comprising:

sending a service discovery request message via the plurality of IP routers, towards wherein the service discovery request message is configured to discover at least one service provider that can purvey real world information of interest to a service requester, at least some of the information related to a physical location via the plurality of IP routers, wherein the service request message includes an element to meet a route request of the service provider;

receiving the service discovery request message by each router;

adding, at a respective routing table of each router, routing information pertaining to the received service discovery request message in the routing table;

receiving the service discovery request message by the said at least one service provider;

responding by the said at least one service provider with a service discovery reply message in response to the service discover request message, wherein the service discovery reply message includes an identification of said at least one service provider that can purvey the information of interest to the service requester; and

adding, at a respective routing table of each of a lesser number portion of the plurality of IP routers, routing information pertaining to the corresponding service discovery reply messages to the routing table, wherein the service discover reply message includes every element needed to establish a route reply from the service provider to the service requester via said lesser number of the plurality of IP routers, thereby reducing a signaling overhead in the network.

7. (canceled)

8. (canceled)



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9. (previously presented) The method according to claim 6, wherein the request and reply messages are in accordance to a Ad hoc On Demand Distance Vector Routing Protocol or a Dynamic Source Routing Protocol for Mobile Ad hoc Networks.

10. (previously presented) The method according to claim 9, wherein the protocol of the request and reply message is extended such that on receipt of the expanded messages the routing tables are updated with routing information.



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13. (previously presented) The method according to claim 10, wherein the reply message includes an indicator indicating to the receiving routers to add routing information pertaining to the received reply message.

14. (previously presented) The method according to claim 10, wherein the request and reply messages are in accordance to a Ad hoc On Demand Distance Vector Routing Protocol or a Dynamic Source Routing Protocol for Mobile Ad hoc Networks.

15. (previously presented) The method according to claim 10, wherein the portion of the routers is determined via a route/path determined from multicasting.



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11. (currently amended) A method for establishing a connection between a service requester and a service provider in a decentralized mobile wireless network comprising a plurality of Internet Packet (IP) routers, each router comprising a routing table, the method comprising:

multicasting a service discovery request message towards a service provider via the plurality of IP routers, wherein the network is flooded with the request message from the multicasting, wherein the service discovery request message is configured to discover at least one service provider that can purvey real world information of interest to a service requester, at least some of the information related to a physical location;

receiving the service discovery request message by each router;

adding, at a respective routing table of each router, routing information pertaining to the received service discovery request message in the routing table;

receiving the service discovery request message by the said at least one service provider;

responding by the said at least one service provider with a service discovery reply message in direct response to the service discover request message, wherein the network is not flooded with the reply message;

receiving the reply message by a portion lesser number of the plurality of IP routers thereby avoiding a flooding of the network message; and

adding, at the respective routing table of each of the lesser number portion of the plurality of IP routers, routing information pertaining to the corresponding reply message to the routing table,

wherein a connection between the requester and said at least one service provider is established via said lesser number of the plurality of IP routers, thereby avoiding a signaling whereby an over-head, which otherwise would be incurred in the network by multicasting a route request from the provider to the requester is avoided.

12. (previously presented) The method according to claim 10, wherein the request message includes an indicator indicating to the receiving routers to add routing information pertaining to the received request message.



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16. (currently amended) A decentralized mobile wireless network system, comprising:

a network service that is available to a service requester;

a plurality of Internet Packet (IP) routers each having a routing table;

a service discovery request message that includes a first routing indicator and ~~information pertaining to the service~~ a request for discovering at least one service provider that can purvey real world information of interest to a service requester, at least some of the information related to a physical location,

wherein the service discovery request message is multicasted from the requester via the plurality of IP routers, thereby flooding the network, and

wherein each router receives the service discovery request message and updates ~~the its~~ respective routing table with routing information pertaining to the received service discovery request message when the service discovery request message includes the first routing indicator;

~~a plurality of at least one~~ service providers receives the request message; and

a service discovery reply message that includes a second routing indicator,

wherein the discovery reply message is sent by a said at least one service provider that receives the request message and that can provides the service information of interest to the service requester, the discovery reply message is sent in direct response to the service discovery request message,

~~wherein the network is not flooded with the reply message, and~~

wherein the discovery reply message is received by a ~~portion~~ lesser number of the plurality of IP routers, thereby avoiding a flooding of the network message and wherein the respective routing table of each of the lesser number the routing table at the portion of the plurality of routers is updated with information pertaining to the corresponding reply message when the reply message includes the second routing indicator, and

wherein a connection between the requester and ~~the~~ said at least one service provider providing the service is ~~establishing~~ established via said lesser number of the plurality of IP routers, thereby reducing a signaling overhead in the network.



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17. (previously presented) The method according to claim 16, wherein the portion of the routers is determined via a route/path determined from multicasting.

18. (previously presented) The method according to claim 16, wherein the request and reply messages are in accordance to a Ad hoc On Demand Distance Vector Routing Protocol or a Dynamic Source Routing Protocol for Mobile Ad hoc Networks.